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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,927	03/02/2004	Sunil C. Jha	106619.140 MOTT4-DV2	1423
23483 7	590 05/25/2005		EXAMINER	
WILMER CUTLER PICKERING HALE AND DORR LLP			PHAM, MINH CHAU THI	
60 STATE STI			4 1377 1 13377	TARER AND AREA
BOSTON, MA 02109			ART UNIT	PAPER NUMBER
			1724	

DATE MAILED: 05/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Comments	10/790,927	JHA ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAIL INC DATE - 641:	Minh-Chau T. Pham	1724					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
 1) ⊠ Responsive to communication(s) filed on 18 F 2a) □ This action is FINAL. 2b) ⊠ This 3) □ Since this application is in condition for alloware closed in accordance with the practice under the condition of the cond	s action is non-final. ance except for formal matters, p		e merits is				
Disposition of Claims							
4) ☐ Claim(s) 1-19 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.						
Application Papers	,						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is o	ee 37 CFR 1.85(a). ojected to. See 37 C	` '				
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been receiv u (PCT Rule 17.2(a)).	tion No red in this National	Stage				
Attachment(s)	4) 🔲 Interview Summar	4 (BTO 442)					
Notice of Neterences offed (₹10-032) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/22/04.	Paper No(s)/Mail D	ate	D-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Art Unit: 1724

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Adler et al (6,547,967 B1) or Hart (4,046,939).

Adler et al disclose a composite porous media filter comprising a ceramic foam having a reticulated, inter-cellular structure with a multiplicity of interconnected pores extending therethrough or a network in the form of open-cell ceramic foams (col. 1, lines 20-21), and the foam pores are impregnated with sintered powder (col. 1, lines 26-33). Also see col. 1, lines 34-47, col. 3, lines 36-55, col. 8, lines 52-62). Hart discloses an open cell solid resin foam wherein the foam is impregnated with an adsorbent such as finely divided carbon or is impregnated with chemically active materials (col. 1, lines 31-

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35 and lines 47-67, col. 2, lines 12-39) or a metal powder such as titanium dioxide (col. 5, lines 1-11). Claims 1-19 differ from the disclosure of either Adler et al or Hart in that the claims call for a conduit having an inlet for receiving a fluid and an outlet for providing a filtered fluid. It is inherently understood that as a porous filter media the filter media is located in the middle of the device where a fluid stream enters the device via an inlet opening and the filtered fluid stream exits the device via an outlet opening after the fluid stream goes through the filter media to be filtered. In addition, the phrase "a conduit having an inlet for receiving a fluid and an outlet for providing a filtered fluid" is merely an intended use and it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations. See *Ex parte Masham*, 2 *USPQ 2d 1647 (1987)*.

Regarding to numerical requirements of claims 8-14, 18 and 19, i.e., "range of about 10% to about 50% of the total thickness of the media" of claim 8, etc., the specification contains no disclosure of either the critical nature of these requirements or any unexpected results arising therefrom, and as such these requirements would be arbitrary and therefore obvious. Applicants <u>must</u> show that these requirements are critical. *In re Woodruff, 16 USPQ 2d 1934*.

Response to Arguments

Applicant's arguments filed on February 18, 2005 have been fully considered but they are not persuasive.

Applicant argues that the cited references "do not disclose a foam having a reticulated, inter-cellular structure with a multiplicity of interconnected pores extending therethrough, and the pores of the foam are impregnated with sintered powder". The Examiner now drops both references Ettel and Helferich et al and newly introduces Adler et al and Hart under 103 rejections to show a composite porous media filter comprising a ceramic foam having a reticulated, inter-cellular structure with a multiplicity of interconnected pores extending therethrough or a network in the form of open-cell ceramic foams (col. 1, lines 20-21), and the foam pores are impregnated with sintered powder (col. 1, lines 26-33). Also see col. 1, lines 34-47, col. 3, lines 36-55, col. 8, lines 52-62). Hart discloses an open cell solid resin foam wherein the foam is impregnated with an adsorbent such as finely divided carbon or is impregnated with chemically active materials (col. 1, lines 31-35 and lines 47-67, col. 2, lines 12-39) or a metal powder such as titanium dioxide (col. 5, lines 1-11), as claimed.

Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection, as discussed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh-Chau T. Pham whose telephone number is (571) 272-1163. The examiner can normally be reached on Mon/Tues/Thur/Fri 7:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

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Minh-Chau Pham Patent Examiner

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